PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031 ,

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB central number.

Substitute for form 1449A/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	TBA	
				Filing Date	September 9, 2003	
				First Named Inventor	Patrick M. Martin	
				Art Unit	TBA	
(use as many sheets as necessary)			s necessary)	Examiner Name	TBA	
Sheet	1	of	2	Attorney Docket Number	67493/63	

·	U.S. PATENT DOCUMENTS					
Examiner Initiats	J	Document Number Number - Kind Code ² (if known	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	_1	us- 4,178,403	12-11-1979	Sakurai et al.		
	2	us- 4,556,608	12-03-1985	Kaneki et al.		
	3	us- 4,720,442	01-19-1988	Shinkai et al.		
	4	us- 5,451,543	09-19-1995	Woo et al.		
	5	us- 5.460,908	10-24-1995	Reinberg		
	6	us- 5,482,799	01-09-1996	Isao et al.		
	7	us- 5,578,402	11-26-1996	Watanabe		
	8	us- 5,693,568	12-02-1997	Liu et al.		
	9	us- 5,725,973	03-10-1998	Han et al.		
	10	us- 5,756,396	05-26-1998	Lee et al.		
	11	us- 5,939,227	08-17-1999	Smith		
	12	us- 5,955,222	09-21-1999	Hibbs et al.		
	13	us- 6,187,480	02-13-2001	Huang		
	14		11-22-2001	Kokubo		
	15	us- 6,335,130	01-01-2002	Chen et al		
	16	us- 6,355,557	03-12-2002	Stinnett et al.		
400	_ 17	us- 6,544,696 B2	04-08-2003	Westerman et al.		
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No. 1	Foreign Patent Document Country Code 3 "Number" - Kind Code 9 (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	76	
	_						
	_					_	
							

Examiner Date Dasco Signature Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-tetter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 9 Applicant is to place a check mark here if English language Translation is attached.

English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449B/PTO TBA Application Number INFORMATION DISCLOSURE Filing Date September 9, 2003 Patrick M. Martin STATEMENT BY APPLICANT First Named Inventor TBA Group Art Unit TBA (use as many sheets as necessary) **Examiner Name** Attorney Docket Number 67493/63 Sheet of

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS			
Examiner Cite Initials No.					
124	18	CANON PRESENTATION, "Canon's IDEAL: Innovative Double Exposure by Advanced Lithography," BACUS News, SPIE, April 2001, Vol. 17, Issue 4, p. 1-7.			
	19	T. EBIHARA, T. OGA, P.D. RHYINS, M. SWEIS, P.M. MARTIN, "150-nm dense/isolated contact hole study with Canon IDEAL technique", SPIE Proceeding 4562-119.			
	20	R.L. KOSETELAK, C. PIERRAT, J.G. GAROFALO, and S. VAIDYA, "Exposure characteristics of alternate aperture phase-shifting masks fabricated using a subtractive process", J. Vac. Sci. Tech. 80, 3055-3061 (1992).			
	21	M.D. LEVENSON, N.S. VISWANATHAN, and R.A. SIMPSON, "Improving Resolution with a Phase-Shifting Mask", IEEE Trans. Elect. Dev. ED-29, 1828-1836 (1982).			
	22	K.D. LUCAS, C.M. YUAN, and A.J. STROLJWAS, "A rigorous and practical vector model for phase shigting masks in optical lithography", Proc. SPIE 1674, 252-263 (1992).			
	23	ARMIN SEMMLER, L. MADER, A. ELSNER, R. KOEHLE, U. GRIESINGER, C. NOELSCHER, "Application of 3D EMF Simulation for Development and Optimization of Alternating Phase Shifting Masks", Optical Microlithography XIV, Proceedings of SPIE, 2001, P. 356-367, Vol. 4346 (Christopher.JProgler, ed.).			
	24	SONG PENG, "Through-Focus Image Balancing of Alternating Phase Shifting Masks", SPIE Vol. 3873, p. 328-336 (1999).			
	25	T. TERASAWA, N. HASEGAWA, A. IMAI and S. OKAZAKI, "Analysis of Nonplanar Topography Effects of Phase Shift Masks on Imaging Characteristics", Japanese J. Appl. Phys. 34, 6578-6583 (1995).			
200	26	T. TERESAWA, N. HASEGAWA, T. TANAKA, S. KATAGIRI, and T. KUROSAKI, "Improved Resolution of an i-line stepper using a phase-shift mask", J.Vac. Sci. Tech. B8, 1300-1308, (1990).			

Signature Date Con	te nsidered	6/	06

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.